TARUNA AGRAWAL

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OBJECTIVE

To work in a creative and challenging environment where I could constantly learn and successfully deliver solutions to problems.

EDUCATION

University of Southern California, Los Angeles

M.S in Electrical Engineering (Multimedia and Creative Technologies) (2015-2016)
CGPA: 3.76/4.00

Dhirubhai Ambani Institute of Information and Communication technology

Bachelor of Technology in Information and Communication technology (2007-2011)
CGPA: 8.00/10.00

WORK EXPERIENCE

Qualcomm India Pvt. Limited, Hyderabad (QIPL-HYD)

Firmware Development Engineer (2011-2014), Intern (Dec 2010 - June 2011)

- Developing and commercializing various projects related to Bluetooth-Wireless LAN Coexistence and Wireless LAN and Authentication infrastructure(WAPI) based on Qualcomm MSM and APQ platforms.
- Embedded C programming/debugging using JTAG, Trace 32,QXDM, Source insight.

Ericsson India Pvt. Limited

Intern (May 2010 - June 2010)

- Analyzing basic service set operations in field locations.
- Conducting basic operations and on site maintenance work.

PROJECTS

Multimedia Search Engine (Spring-2015)
Team Size:3
Programming language: C++, Matlab
GUI designing: QT creator
Projects aims at developing a system which will take short video/audio as input from user and very quickly produces a list of videos (from a database) that either contains the queried short clip or contains similar queried short clips arranged in order of best matched clips.

ANT-Wireless LAN Coexistence (Mar 2013 - May 2013)
Team Size:1
Programming language: C
Project aimed at developing a system which assures that two wireless technologies, ANT and Wireless LAN, operating at 2.4Ghz can coexist on a single Qualcomm chipset and share the same antennae.Scope of the project also included debugging and maintenance of the project during my employment with Qualcomm.

Bluetooth- Tunneled direct link Setup (TDLS) Coexistence(Jan 2013 - Feb 2013)
Team Size:1
Programming language: C
Project aimed at developing a system which assures that Bluetooth and TDLS (Single channel) can coexist on a single Qualcomm chipset and share the same antennae.

College Administration System (Jan 2010 - Apr 2010)
Team Size:10
Headed the software engineering team that developed a website to bring all aspects of placement, academic and administrative activity of the college on a single portal.

COURSEWORK

University Of Southern California
Digital Signal Processing , Multimedia Systems Design, Applications of Linear Algebra

Independent Coursework
Coursera: Machine Learning by Andrew Ng
Coursera: Algorithms, design and Analysis, Part 1 by Tim Roughgarden

TECHNICAL SKILLS
- Programming languages : C, C++, Matlab.
- Platforms : Linux, Windows.
- Technologies : IEEE 802.11a/b/g/n, WAPI and BTC.
- Network testing tools : Wireless Sniffer, WireShark, I-perf.
- Tools : Base station, Wireless Access Point, Matlab, IT++, MySQL, Verilog

HONORS AND AWARDS
- Honoured with **Kalpana Chawla Award** for excellence in academics.
- Awarded with three **QUALSTARS** for outstanding performance and successful commercialization of various projects while at Qualcomm.

EXTRACURRICULAR ACTIVITIES
- Volunteered for four week rural internship with a NGO, World Vision in Kotdwar, India.
- Winner of badminton tournament at Concours 2009, inter college sports meet at DAIICT.
- Winner of throwball competition at annual sports fest at Qualcomm (2011, 2012).
- Coordinator of Rhubarb (extempore and debate competition) in Synapse 2010, the techno-cultural event at DAIICT.